

# SYCU-Legendary Humanoid Kid-size Robot Specification Paper 2018

Shenyang Key Lab. of Humanoid Robot,  
Shenyang City University, Shenyang, Liaoning Province, China

[80660614@qq.com](mailto:80660614@qq.com)

<http://47.92.116.194/>



**Robot Name:** "Zhuang Zhuang", "Optimus Prime", "Lion", "Master" and "Phantom"  
(from left to right)

## Robot Specification

Height(mm)	680
Wide(mm)	270
Weight(kg)	4
Walking speed	20cm/s
Computing Unit	Core i7-5500
Degrees of freedom	18DOFs (6 in each leg, 2 in each shoulder and 2 in the head)
Actuator	Dynamixel MX-28 and MX-64
Sensor	ADIS16355AMLZ1 Gyroscope
Camera	Logitech C930e WEBCAMI
Battery	XP17004EX 14.8V
Camera resolution	800*600, 30 frames/s
Positioning accuracy	±1cm
Visual identification distance	2m
Operating System	Linux